

ABSTRACT OF THE DISCLOSURE

To provide a CO₂ incubator capable of accurately controlling the CO₂ gas concentration in an incubation space and quickly coping with a sudden change of CO₂ gas concentrations in the incubation space.

A CO₂ gas sensor 6 for detecting the CO₂ concentration in an incubation space S, a control panel for setting a CO₂ gas concentration, a CO₂ gas cylinder 10 and electromagnetic switching valve 9 for supplying CO₂ gas into the incubation space S, and a CO₂ gas concentration controller 11 for controlling the electromagnetic switching valve 9 are used in which the controller 11 executes operations of proportion, proportion and integration, or proportion, integration, and differentiation in accordance with a deviation between the CO₂ gas concentration in the incubation space S and a CO₂ gas concentration set value, calculates the CO₂ gas supply time and the stop time for unit time to the incubation space S, and supplies CO₂ gas to the incubation space S from the CO₂ gas cylinder 10 in accordance with the calculated supply time and stop time.